

REMARKS

The above amendments to the above-captioned application along with the following remarks are being submitted as a full and complete response to the Office Action dated June 3, 2004 (U.S. Patent Office Paper No. 2). In view of the above amendments and the following remarks, the Examiner is respectfully requested to give due reconsideration to this application, to indicate the allowability of the claims, and to pass this case to issue.

Status of the Claims

As outlined above, claims 1, 10, 16 and 34 are being amended to correct formal errors and to more particularly point out and distinctly claim the subject invention. Support for the amendments to the claims may be found throughout the specification and the drawings.

Additional Amendments

The specification and abstract are being amended to correct formal errors and to better disclose and describe the features of the present invention as claimed. Applicants hereby submit that no new matter is being introduced into the application through the submission of this response.

Formal Objections or Rejections

Claim 10 was rejected under 35 U.S.C. §112, second paragraph, for being indefinite. As outlined above, claim 10 is being amended in accordance with the Examiner's requirements.

Prior Art Rejections

The Examiner rejected claims 1-34 under 35 U.S.C. § 102(b) as being anticipated by George et al. (US Patent No. 5,774,669). Applicants strongly but respectfully traverse this rejection.

The present invention as recited in claim 1 is directed to a method of automatically recognizing a network configuration, for automatically recognizing a device configuration on

a network system having a network node including at least one or more intelligent network devices each implementing an SNMP agent and a management information base. The method comprises the steps of sending an ICMP echo request from an administrator terminal implementing an SNMP manager to individual network devices in the network node, and detecting existence and non-existence of network devices on the basis of responses therefrom; and a second step of sending to the SNMP agents in the individual network devices detected a transfer request for information stored in the management information bases of the respective network devices, and detecting the types of the network devices in the network node based on the information stored in the management information bases returned. The type of network devices detected includes at least an active or inactive state of a network device.

Further, the present invention as recited in claim 16 is directed to a system for automatically recognizing a network configuration, wherein an administrator terminal implementing an SNMP manager automatically recognizes a device configuration on a network system having a network node including at least one or more intelligent network devices each implementing an SNMP agent and a management information base. The administrator terminal implementing an SNMP manager comprises first means for sending an ICMP echo request to individual network devices in the network node, and detecting existence or non-existence of network devices on the basis of responses therefrom; and second means for sending to the SNMP agents in the individual network devices detected a transfer request for information stored in the management information bases of the respective network devices, and detecting the types of the network devices in the network node based on the information stored in the management information bases returned. The type of network devices includes at least an active or inactive state of a network device.

Even more, the present invention as recited in claim 34 is directed to a network configuration chart displaying system for displaying onto a display screen a network configuration chart showing connections of network devices connected to a network via packet relay equipment. The system comprises connection information collecting means for collecting connection information of network devices such as a computer and a printer connected to the network, and storing the same into a connection table; and connection display means for displaying packet relay equipment having a plurality of connection ports as a packet relay equipment object having as many connection objects as the number of connection ports, displaying a network device such as a computer and a printer as a device

object having a connection object, and displaying the connection between the packet relay equipment and the network device as a line segment connecting the connection objects to each other, on the basis of the connection information collected. The collected connection information includes at least existence or non-existence of a selected network device and an active or inactive state of the selected network device.

In contrast to the present invention, George '669 at best merely discloses a system that recognizes whether network devices are active or not based on the responses to ICMP echo requests from such devices.

George '669, on the other hand, fails to disclose, teach or suggest recognizing whether network devices are existent or non-existent based on their responses to ICMP echo requests from such devices, and then recognizing whether the network devices that do exist are active or inactive based on the information stored in the management information bases returned (e.g., the physical IP address correspondence information). In other words, while the present invention incorporates, among other features, being able to recognize three kinds of network device statuses (i.e., active, inactive, non-existent), George '669 at most recognizes two kinds of device statuses (i.e., active, inactive).

Consequently, George '669 falls far short of either anticipating or rendering obvious each and every feature of the present invention as claimed. Rather, the present invention as a whole is distinguishable and thereby allowable over the prior art.

Conclusion

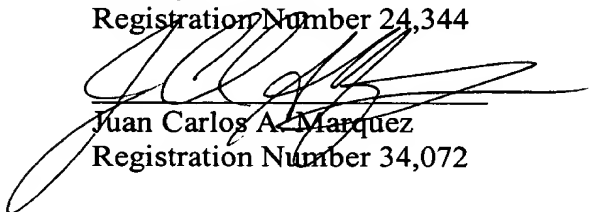
In view of all the above, Applicants respectfully submit that certain clear and distinct differences as discussed exist between the present invention as now claimed and the prior art references upon which the rejections in the Office Action rely. These differences are more than sufficient that the present invention as now claimed would not have been anticipated nor rendered obvious given the prior art. Rather, the present invention as a whole is distinguishable, and thereby allowable over the prior art.

Favorable reconsideration of this application as amended is respectfully solicited. Should there be any outstanding issues requiring discussion that would further the prosecution and allowance of the above-captioned application, the Examiner is invited to

contact the Applicants' undersigned representative at the address and phone number indicated below.

Respectfully submitted,

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